

8/9 – 8/13	Standards: <ul style="list-style-type: none"> <li>- <i>Staff Development Day</i> (no students)</li> <li>- <i>Staff Development Day</i> (no students)</li> <li>- <i>Administrative Day</i> (no students)</li> <li>- syllabus / introduction / function representation</li> <li>- numerical / graphical limits (one-sided / infinite)</li> </ul>
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\* Administrative Day on 8/6

9/13 – 9/17	Standards: <ul style="list-style-type: none"> <li>- review</li> <li>- <i>Conferences</i> (1/2 day for students)</li> <li>- <b>derivatives test</b></li> <li>- basic derivatives (<math>x^n</math>, <math>\sin x</math>, &amp; <math>\cos x</math>)</li> <li>- product &amp; quotient rules</li> </ul>
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8/16 – 8/20	Standards: <ul style="list-style-type: none"> <li>- analytical limits</li> <li>- analytical limits</li> <li>- infinite limits / asymptotes</li> <li>- limits at infinity / end-behavior</li> <li>- limits at infinity / end-behavior</li> </ul>
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9/20 – 9/24	Standards: <ul style="list-style-type: none"> <li>- chain rule</li> <li>- <i>Conferences</i> (1/2 day for students)</li> <li>- chain rule</li> <li>- enrichment</li> <li>- <b>quiz</b></li> </ul>
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8/23 – 8/27	Standards: <ul style="list-style-type: none"> <li>- continuity / <b>quiz</b></li> <li>- continuity / Intermediate Value Theorem</li> <li>- enrichment</li> <li>- review</li> <li>- <b>limit test</b></li> </ul>
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9/27 – 10/1	Standards: <ul style="list-style-type: none"> <li>- implicit differentiation</li> <li>- implicit differentiation</li> <li>- derivatives of inverse trigonometric functions</li> <li>- derivatives of exponential functions</li> <li>- derivatives of logarithmic functions</li> </ul>
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8/30 – 9/3	Standards: <ul style="list-style-type: none"> <li>- numerical derivatives / slope of tangent (approx)</li> <li>- limit definitions of numerical derivative</li> <li>- average and instantaneous rates of change</li> <li>- limit definitions of function derivative</li> <li>- <b>quiz</b></li> </ul>
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10/4 – 10/8	Standards: <ul style="list-style-type: none"> <li>- logarithmic differentiation</li> <li>- enrichment</li> <li>- derivatives of inverse functions</li> <li>- review</li> <li>- <b>differentiation test</b></li> </ul>
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9/6 – 9/10	Standards: <ul style="list-style-type: none"> <li>- <i>Labor Day</i> (no school)</li> <li>- graphs of <math>f</math> and <math>f'</math></li> <li>- graphs of <math>f</math> and <math>f'</math></li> <li>- differentiability (graphs)</li> <li>- differentiability (limit definition)</li> </ul>
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10/11 – 10/15	Standards: <ul style="list-style-type: none"> <li>- absolute and relative extrema</li> <li>- Extreme Value Theorem</li> <li>- <i>2nd Quarter</i></li> <li>- <i>2nd Quarter</i></li> <li>- <i>2nd Quarter</i></li> </ul>
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Notes:

10/11 – 10/15	Standards: <ul style="list-style-type: none"> <li>- <i>1st Quarter</i></li> <li>- <i>1st Quarter</i></li> <li>- <i>Testing</i> (no class)</li> <li>- Mean Value Theorem</li> <li>- increasing &amp; decreasing behavior</li> </ul>
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\* PSAT on 10/13

11/15 – 11/19	Standards: <ul style="list-style-type: none"> <li>- linearization</li> <li>- differentials</li> <li>- linearization &amp; differentials</li> <li>- related rates</li> <li>- related rates</li> </ul>
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10/18 – 10/22	Standards: <ul style="list-style-type: none"> <li>- <i>Fall Break</i> (no school)</li> <li>- <i>Fall Break</i> (no school)</li> <li>-</li> <li>-</li> <li>-</li> </ul>
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11/22 – 11/26	Standards: <ul style="list-style-type: none"> <li>- optimization</li> <li>- optimization</li> <li>- <i>Thanksgiving Holiday</i> (no school)</li> <li>- <i>Thanksgiving Holiday</i> (no school)</li> <li>- <i>Thanksgiving Holiday</i> (no school)</li> </ul>
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10/25 – 10/29	Standards: <ul style="list-style-type: none"> <li>- relative extrema (1st Derivative Test)</li> <li>- relative extrema (2nd Derivative Test)</li> <li>- <b>quiz</b></li> <li>- concavity / points of inflection</li> <li>- concavity / points of inflection</li> </ul>
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11/29 – 12/3	Standards: <ul style="list-style-type: none"> <li>- l'Hôpital's rule (basic)</li> <li>- l'Hôpital's rule (other cases)</li> <li>- review</li> <li>- <b>derivative applications test</b></li> <li>- antiderivatives</li> </ul>
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11/1 – 11/5	Standards: <ul style="list-style-type: none"> <li>- graph analysis</li> <li>- <i>Staff Development Day</i> (no students)</li> <li>- graph analysis</li> <li>- graphs of <math>f</math>, <math>f'</math>, &amp; <math>f''</math></li> <li>- review</li> </ul>
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12/6 – 12/10	Standards: <ul style="list-style-type: none"> <li>- graphs of <math>F</math>, <math>f</math>, <math>f'</math>, &amp; <math>f''</math></li> <li>- area &amp; rectangle approximation methods</li> <li>- Riemann sums</li> <li>- area &amp; definite integrals</li> <li>- definite integrals (geometry)</li> </ul>
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11/8 – 11/12	Standards: <ul style="list-style-type: none"> <li>- <b>quiz</b></li> <li>- enrichment</li> <li>- review</li> <li>- <b>graph behavior test</b></li> <li>- speed, displacement, &amp; distance traveled</li> </ul>
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12/13 – 12/17	Standards: <ul style="list-style-type: none"> <li>- review</li> <li>- <i>Semester Exams</i></li> <li>- <i>Semester Exams</i></li> <li>- <i>Semester Exams</i></li> <li>- <i>Semester Exams</i></li> </ul>
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Notes:

1/3 – 1/7	Standards: <ul style="list-style-type: none"> <li>- <i>Administrative Day</i> (no students)</li> <li>- definite integrals (FTC)</li> <li>- average value</li> <li>- trapezoid method</li> <li>- <b>quiz</b></li> </ul>
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2/7 – 2/11	Standards: <ul style="list-style-type: none"> <li>- volume (cross sections)</li> <li>- volume (washers)</li> <li>- volume (washers)</li> <li>- enrichment</li> <li>- review</li> </ul>
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1/10 – 1/14	Standards: <ul style="list-style-type: none"> <li>- integral functions</li> <li>- Fundamental Theorem of Calculus</li> <li>- review</li> <li>- <b>integrals test</b></li> <li>- substitution rule</li> </ul>
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2/14 – 2/18	Standards: <ul style="list-style-type: none"> <li>- <b>integral applications test</b></li> <li>- differential equations / initial value problems</li> <li>- slope fields</li> <li>- Euler's method</li> <li>- enrichment</li> </ul>
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1/17 – 1/21	Standards: <ul style="list-style-type: none"> <li>- <i>Martin Luther King, Jr. Day</i> (no school)</li> <li>- change of variables</li> <li>- integration by parts</li> <li>- trigonometric integrals</li> <li>- <b>quiz</b></li> </ul>
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2/21 – 2/25	Standards: <ul style="list-style-type: none"> <li>- <i>Staff Development Day</i> (no students)</li> <li>- separable differential equations</li> <li>- enrichment</li> <li>- growth and decay models</li> <li>- logistic models</li> </ul>
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1/24 – 1/28	Standards: <ul style="list-style-type: none"> <li>- rational integration (including inverse trig)</li> <li>- rational integration (partial fractions)</li> <li>- improper integrals</li> <li>- review</li> <li>- <b>integration test</b></li> </ul>
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2/28 – 3/4	Standards: <ul style="list-style-type: none"> <li>- enrichment</li> <li>- review</li> <li>- <b>differential equations test</b></li> <li>- infinite and geometric series</li> <li>- power series</li> </ul>
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1/31 – 2/4	Standards: <ul style="list-style-type: none"> <li>- total change</li> <li>- area</li> <li>- area</li> <li>- <b>quiz</b></li> <li>- volume (cross sections)</li> </ul>
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3/7 – 3/11	Standards: <ul style="list-style-type: none"> <li>- ratio test / radius of convergence</li> <li>- Taylor series</li> <li>- power series operations</li> <li>- <b>quiz</b></li> <li>- <i>4th Quarter</i></li> </ul>
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Notes:

3/7 – 3/11	Standards: <ul style="list-style-type: none"> <li>- 3rd Quarter</li> <li>- 3rd Quarter</li> <li>- 3rd Quarter</li> <li>- 3rd Quarter</li> <li>- Taylor polynomials</li> </ul>
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4/25 – 4/29	Standards: <ul style="list-style-type: none"> <li>- AP Practice</li> <li>- AP Practice</li> <li>- AP Practice</li> <li>- AP Practice</li> <li>- AP Practice</li> </ul>
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3/14 – 3/18	Standards: <ul style="list-style-type: none"> <li>- Taylor Theorem</li> <li>- ACT</li> <li>- review</li> <li>- <b>power series test</b></li> <li>- <i>Staff Development Day</i> (no students)</li> </ul>
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\* Spring Break: 3/21 – 3/25

5/2 – 5/6	Standards: <ul style="list-style-type: none"> <li>- AP Practice</li> <li>- <i>EOC Exams</i></li> <li>- <i>EOC Exams</i> (AP Exam)</li> <li>- <i>EOC Exams</i></li> <li>- enrichment</li> </ul>
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\* AP Exams all week

3/28 – 4/1	Standards: <ul style="list-style-type: none"> <li>- divergence / <math>p</math>-series</li> <li>- comparison tests</li> <li>- practice</li> <li>- review / absolute convergence</li> <li>- alternating series test</li> </ul>
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5/9 – 5/13	Standards: <ul style="list-style-type: none"> <li>- enrichment</li> <li>- enrichment</li> <li>- enrichment</li> <li>- enrichment</li> <li>- enrichment</li> </ul>
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\* AP Exams all week

4/4 – 4/8	Standards: <ul style="list-style-type: none"> <li>- alternating series estimation theorem</li> <li>- review</li> <li>- <b>convergence test</b></li> <li>- parametric and vector functions</li> <li>- parametrically-defined slope</li> </ul>
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5/16 – 5/20	Standards: <ul style="list-style-type: none"> <li>- enrichment</li> <li>- enrichment</li> <li>- enrichment</li> <li>- <i>Second Semester Exams</i></li> <li>- <i>Second Semester Exams</i></li> </ul>
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4/11 – 4/15	Standards: <ul style="list-style-type: none"> <li>- arc length</li> <li>- planar motion</li> <li>- planar motion</li> <li>- <b>quiz</b></li> <li>- polar functions</li> </ul>
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5/23 – 5/27	Standards: <ul style="list-style-type: none"> <li>- <i>Second Semester Exams</i></li> <li>- <i>Second Semester Exams</i> (1/2 day for students)</li> <li>- <i>Administrative Day</i> (no students)</li> <li>-</li> <li>-</li> </ul>
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\* Graduation on 5/28?

4/18 – 4/22	Standards: <ul style="list-style-type: none"> <li>- slope of polar curves</li> <li>- area of polar regions</li> <li>- review</li> <li>- <b>parametric, vector, &amp; polar functions test</b></li> <li>- <i>Good Friday</i> (no school)</li> </ul>
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Notes: